

**Notice of Allowability**

Application No.

10/630,991

Applicant(s)

STONICK ET AL.

Examiner

Art Unit

Phuong Phu

2611

*-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--*

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to the Amendment filed on 5/3/07.2.  The allowed claim(s) is/are 1-26.3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).a)  All b)  Some\* c)  None of the:1.  Certified copies of the priority documents have been received.2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.5.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.(a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached  
1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.(b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of  
Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.**Attachment(s)**1.  Notice of References Cited (PTO-892)5.  Notice of Informal Patent Application2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.3.  Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_.7.  Examiner's Amendment/Comment4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material8.  Examiner's Statement of Reasons for Allowance9.  Other \_\_\_\_\_.

### **DETAILED ACTION**

1. This Office Action is responsive to the Amendment filed on 5/3/07. Accordingly, claims 1-26 are currently pending.

### **REASONS FOR ALLOWANCE**

2. Claims 1-26 are allowed.
3. References 20050002474 and 5712873 are additionally cited because they are pertinent to the claimed invention.
4. The following is an examiner's statement of reasons for allowance:

-Regarding to independent claim 1, none of prior art of record teaches or suggests a equalization circuit to receive a plurality of input symbols and to generate an output symbol , the equalization circuit comprising: a first data slicer; a second data slicer; and logic circuitry, coupled to the first and second data slicers, to output a signal having either a first or second logic level wherein: if the data slicers output the same value, the logic circuitry outputs the logic level that is associated with the value output by the data slicers; and if the data slicers output different values, the logic circuitry outputs the complement of the logic level of the immediately preceding input symbol.

-Regarding to independent claim 5, none of prior art of record teaches or suggests a receiver to receive a plurality of input symbols and to generate an output signal, the receiver comprising an equalization circuit wherein the equalization circuit comprises a first data slicer; a second data slicer; and logic circuitry, coupled to the first and second data slicers, to output a signal having either a first or second logic level wherein: if the data slicers output the same value, the logic circuitry outputs the logic level that is associated with the value output by the

data slicers; and if the data slicers output different values, the logic circuitry outputs the complement of the logic level of the immediately preceding input symbol.

Regarding to independent claim 19, none of prior art of record teaches or suggests a receiver to receive a plurality of input symbols and to generate an output signal, the receiver comprising an equalization circuit wherein the equalization circuit comprises a first data slicer; a second data slicer; and logic circuitry, coupled to the first and second data slicers, to output a signal having either a first or second logic level wherein: if the data slicers output the same value, the logic circuitry outputs the logic level that is associated with the value output by the data slicers; and if the data slicers output different values, the logic circuitry outputs the complement of the logic level of the immediately preceding input symbol.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The examiner can normally be reached on M-F (8:00 AM - 4:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2611

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

*Phuong Phu*

Phuong Phu  
06/28/07

**PHUONG PHU  
PRIMARY EXAMINER**

Phuong Phu  
Primary Examiner  
Art Unit 2611